DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 NEMA Premium Efficiency Product code: 14045966 Three-Phase Catalog #: 05012OT3E365T-W40 Frame : 364/5T Locked rotor time : 27s (cold) 15s (hot) Output : 50 HP (37 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 230/460 V : 1000 m.a.s.l. Altitude Rated current : 116/58.1 A Protection degree : IP23 L. R. Amperes : 779/389 A Cooling method : IC01 - ODP LRC : 6.7x(Code G) Mounting : F-1 No load current : 40.8/20.4 A Rotation¹ : Both (CW and CCW) Rated speed : 1185 rpm Noise level² : 68.0 dB(A) Starting method Slip : 1.25 % : Direct On Line Rated torque : 222 ft.lb Approx. weight³ : 777 lb Locked rotor torque : 220 % : 240 % Breakdown torque Insulation class : F Service factor : 1.25 Moment of inertia (J) : 23.9 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads Efficiency (%) 93.5 93.6 94.1 94.1 Max. traction : 1731 lb Power Factor 0.82 0.85 : 2508 lb 0.48 0.74 Max. compression

Drive end
Bearing typeNon drive end
6314 C3Non drive end
6212 Z C3SealingWithout Bearing Seal
Lubrication intervalWithout Bearing Seal
20000 hWithout Bearing Seal

Lubricant amount : 27 g 13 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 128A SF 1.15 SFA 148A

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage



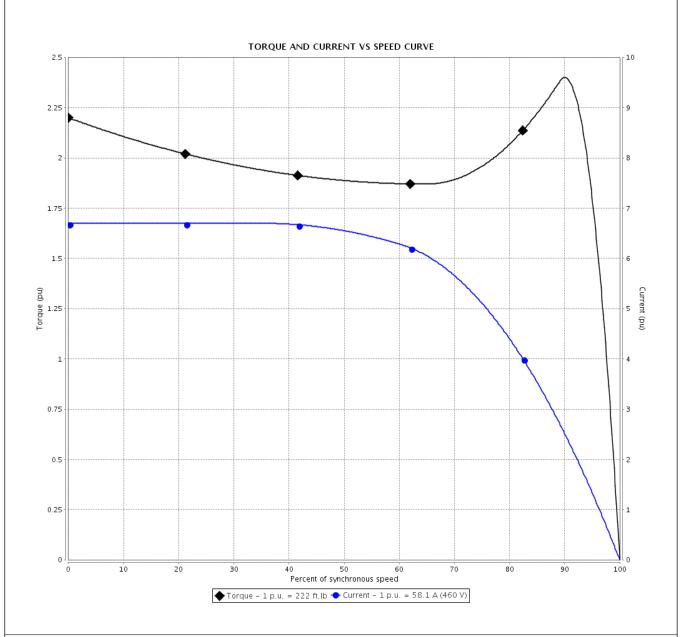
Customer :

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



: 230/460 V 60 Hz 6P Performance Rated current : 116/58.1 A Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 222 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 220 % : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B

Locked rotor time : 27s (cold) 15s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

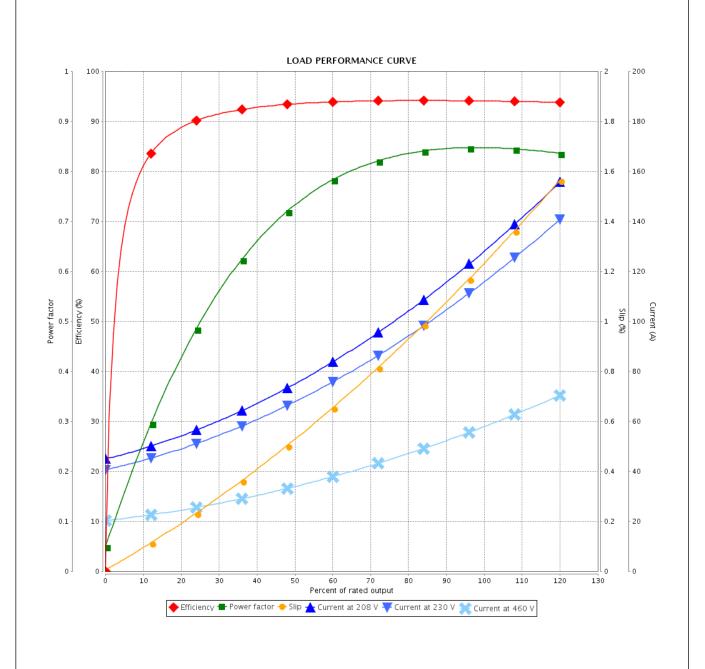


Customer

Product line : W40 NEMA Premium Efficiency Product code : 14045966

Three-Phase

Catalog #: 05012OT3E365T-W40



Performance	: 2	: 230/460 V 60 Hz 6P						
Rated current	: .	: 116/58.1 A Moment o		f inertia (J)	: 23.9 sq.ft.lb			
LRC		6.7	Duty cycle		: Cont.(S1)			
Rated torque	: 2	: 222 ft.lb Insulation		class	:F			
Locked rotor torque	e : 2	220 %	Service factor		: 1.25			
Breakdown torque	: 2	: 240 % : 1185 rpm		ure rise	: 80 K			
Rated speed	: '				: B			
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Checked by					Page	Revision		
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



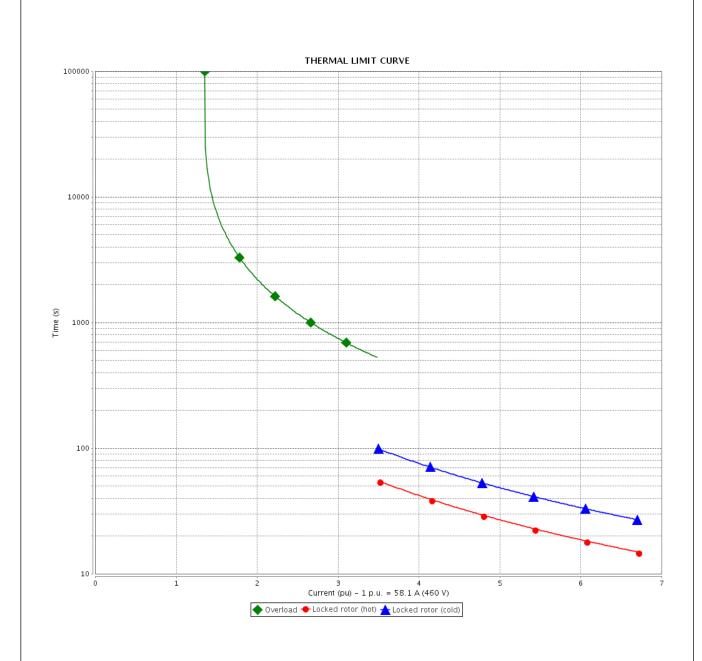
Customer	:					
Product line		W40 NEMA Premium Effici nree-Phase		Product code :	14045966 05012OT3E3	85T-W40
				Datalog # :	U5U1ZU13E3(DD 1 -VV4U
Performance Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11 : 6. : 22 ue : 22 e : 24 : 11	30/460 V 60 Hz 6P 6/58.1 A 7 22 ft.lb 20 % 40 % 185 rpm	Moment of Duty cycle Insulation Service far Temperatu Design	class	: 23.9 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage



Revision

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Customer :

Checked by

Date

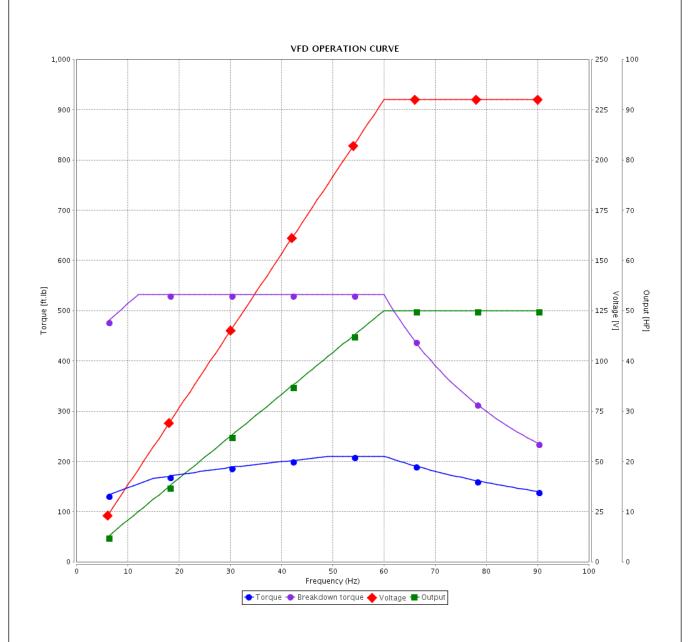
10/04/2020

Product line : W40 NEMA Premium Efficiency

Three-Phase

Product code: 14045966

Catalog #: 05012OT3E365T-W40



Performance : 230/460 V 60 Hz 6P : 116/58.1 A Rated current Moment of inertia (J) : 23.9 sq.ft.lb **LRC** : 6.7 Duty cycle : Cont.(S1) : 222 ft.lb Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 240 % Temperature rise : 80 K Rated speed : 1185 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

